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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,992	07/11/2003	Kyle B. Cole	3507.1	4243
22886 7	590 11/28/2006		EXAMINER	
AFFYMETRIX, INC ATTN: CHIEF IP COUNSEL, LEGAL DEPT. 3420 CENTRAL EXPRESSWAY			RILEY, JEZIA	
			ART UNIT	PAPER NUMBER
SANTA CLAR	SANTA CLARA, CA 95051			
			DATE MAILED: 11/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Ashley Or way	10/617,992	COLE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jezia Riley	1637				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) ☐ Responsive to communication(s) filed on 20 Oct 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under Expression in the practice of the condition of the closed in accordance with the practice.	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) 16-30 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-30 are subject to restriction and/or experiments are subjected to by the Examiner of the drawing(s) filed on 11 July 2003 is/are: a) Applicant may not request that any objection to the drawing of the dr	election requirement. r. ☑ accepted or b) ☐ objected to b drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/17/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "a functional group that permits attachment . . . to a nucleic acid" in claim 170 is unduly functional., Page 16, among other places, states that one embodiment is hydrogen or triphosphate. Is the term limited to these two alone? How rapid must the attachment process be? What additional radicals are intended? Must the attachment process be complete or is say, only 50% of the functional groups react does the functional group meet the claim limitations? What is intended by "permits"? Does this mean that the functional group must be able to react directly with the nucleic acid without extra catalysts or catalysts? Or could the attachment require a coupling agent like DCC? Could this refer to a multi-step process? Could the group be a protecting group which would liberate a claimed A radical? The Examiner suggests adding the specific radicals intended to claim 1.

Claims 13-15 are vague and indefinite because it is unclear what are "peg" and "tegB" are. The instant claims do not provide any definitions.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 5, 7, 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Engelhardt et al. (US5,241,060).

Engelhardt discloses nucleotides and polynucleotides, which are chemically modified or labeled so as to be capable of ready detection when attached to and/or incorporated in nucleic acid material. It is disclosed that a label can be attached to the sugar ring through the phosphorus moiety through a linker, (col. 23-24). Ligation of poly dA:poly dT, biotinyl dU to oligodeoxyribonucleotides was DNA ligase (col. 6). Said labeled nucleotides are used as probes in hybridization assays (col.25).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jezia Riley whose telephone number is 571-272-0786. The examiner can normally be reached on 9:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

26 November 2006

PRIMARY EXAMINER